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Federal Communications Commission
Office of the Secretary

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FEDERAL COMMUNICATIONS COMMISSION
Washington, D.O. 20554

In the Matter of

Amendment of Section 73 622(b)
DTV Table of Television Allotments
(Norwich, Connecticut)

Docket No.

TRECEIVED - FCC

JAN - 1 2004

Burney / Office

To: Chief, Video Division, Media Bureau

ESTITION EGG PRELEMAKING

Connecticut Public 3rd deasting, E. (*C '28f*), ficensee of noncommercial aducational Station WEDN(TV), NTSC Channet 153/ DTV Channel *45, Norwich, Connecticut, through its attorneys, hereby positions, pure and to Section 73.622(a) of the Commission's rules, for amandment of Section 73.622(b) the E.: V Table of Television Allotments, to substitute DTV Channel *8 for exacting DTV channel *8 for exacting DTV channel *8 for exacting DTV channel. In support thereof, the foliowing is respectfully shown:

1. GPBI is a non-profit 501(c)(3) organization that has been serving the state of Connecticut with public proadcasting connections 1962. CPBI is the licensee of four television stations, four radio stations — or low power television station, including public television Station V(EDC(CV) organ). OC Jannel *53/DTV Channel *45 at Norwich, Connecticut. CPBI initiated digital television see vice on Channel *45 at Norwich pursuant to STA in 2000, and commenced program in sits at regular power on March 25, 2003. The application for license EGC File no. 2000. 21. At its pending.

No. of Casies rec'd 014 List ABCDE 04-89

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- 2. Attached hereto is a Technical Exhibit prepared by CPBI's consulting engineers. As shown in that Technical Exhibit, Channel *9 can be allotted for service at Norwich at the same reference location as Channel *45. CPBI asks that Channel *9 be allotted with a nominal non-directional ERP of 6.0 kW includental and HAAT of 192 m. The Technical Exhibit shows that the proposed Channel 9 allotment meets the requirements for all existing U.S. NTSC facilities and U.S. DTD allotments and assignments, and does not affect any Class A TV stations. The proposal is within the Canadian border area and a technical showing is made that the propisal would not lead to interference to any Canadian station, as directed by the U.S.-Canada Letter of Understanding.
- 3. As explained in the Technical Exhibit, the allotment of Channel *9 would provide service to an estimated population of 2.6" 9.000, representing an increase in service population of 1,239,000 with respect to the TEDN-DT Channel *45 allotment facility; and 851,000 with respect to the WEDN-DT Channel 45 licensed facility.
- 4. The proposed substitution of £ Channel *9 for DTV Channel *45 fully complies with the applicable rules and will perm? OPBI to file a "checklist" application for modification of construction permit. Grant of the equested substitution of channels will permit improved, interference-free DTV service: the public interest. Moreover, operation on Channel *9 will be more cost-efficient in the long run over operation on Channel *45.

Accordingly, we urge the Commission to issue a Notice of Proposed Rulemaking to substitute DTV Channel *9 for DTV Channel *45 at Norwich, Connecticut.1

Respectfully submitted,

CONNECTICUT PUBLIC BROADCASTING,

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Telephone: 202/833-1700 Facsimile: 202/833-2351

its Attorneys

January 9, 2005

¹CPBI notes that it has pending applications to exchange DTV Channel *45 at Norwich for the digital channel assigned to CPBI's Hartford station, in applications submitted pursuant to Sections 73.622(c) and 73.623(g) of the Commission's rules (FCC File Nos. BMPEDT-20031008AAT and BPEDT 19990113KG, as amended on October 8, 2003). Those applications were submitted to initiate digital television service in Hartford on DTV Channel *45, and continuation of service (albeit at lower power) on DTV Channel *32 at Norwich. CPBI would implement those facilities as proposed, but submits that the instant proposal for Channel *9 at Norwich is superior to either DTV Channel *45, the present allo ment, or DTV Channel *32, the allotment which would be substituted at Norwich in the event that the channel "swap" applications are approved and implemented. If require if following implementation of the channel "swap" proposed in those applications, C-EI would supplement the instant petition with the comparisons of *9 to *32 as approprice.

du Treil, Lundin & Rackley, Inc.

_____ Consulting Engineers

TLCHNIC XIIIBIT
IN SUPPORT OF PLATE ON FOR RULE MAKING
TELEVISION S. FON WEDN-DT
NORWICH CANNECTICUT

December 9, 2003

TICH' CAL EXHIBIT IN SUPPORT OF PIT FROM FOR RULE MAKING TELEVISION STATION WEDN-DT NORWL CONNECTICUT

Lab of Contents

Technica Statement

Figure 1 Tech ic Specifications

Figure 2 Predicted coverage Contours

Figure 3 Summan of Domestic Allocation Analysis

TLCTL (CAL EXHIBIT IN SUPPORT OF PLATHON FOR RULE MAKING TELEVISION STATION WEDN-DT NORWICE CONNECTICUT

Tech cal Statement

This Technical Statement was prepared on behalf of television broadcast station WEDN(TV), Notwich Connect of (Channel 53), in support of a Petition for Rule Making to amend Section 73 (22(2)) of the FCC Rules to change the WEDN-DT transitional digital television channel.

WEDN-DT was allotted DTV Channel 45 with a maximum effective radiated power (ERP) of 50 kW using a lifectional antenna and an antenna height above average terrain (HAAT) of 207 m ² WT DN-DT is licensed for operation on Channel 45 with a nominal non-directional ERP c. DC kW and antenna HAAT of 192 m. ⁴ The instant petition proposes Channel 9 m ¹ unit Channel 45 for WEDN-DT's DTV transitional channel using the same also incent/license reference location. The petitioner proposes that Channel 9 be allotted with a nominal non-directional ERP of 6.0 kW and antenna HAAT of 192 m. As demonstrated a nominal non-directional ERP of 6.0 kW and antenna HAAT of 192 m. As demonstrated across (LOU) concerning digital television [‡] The technical specifications for the propose allotment are included herein at Figure 1.

^{*} See Appendix B of Second Memorandum On or and Order on Reconsideration of the Fifth and Sixth Report and Orders, FCC-98-315, Released December 18, 1998

See FCC File No. BLEDT-20030425AAU

See Letter Of Understanding Between The Letter of Communications Commission Of The United States Of America. Ind Industry Canada Related To The Communications Commission Of The United States Of America. Ind Industry Canada Related To The Communications Commission Of The United States Of America. Ind Industry Canada Related To The Communications Commission Of The United States Of America. Ind Industry Canada Related To The Communications Commission Of The United States Of America. Ind Industry Canada Related To The Communications Commission Of The United States Of America. Ind Industry Canada Related To The Communications Commission Of The United States Of America. Ind Industry Canada Related To The Communications Commission Of The United States Of America. Ind Industry Canada Related To The Communications Commission Of The United States Of America. Ind Industry Canada Related To The Communications Commission Of The United States Of America. Ind Industry Canada Related To The Communications Commission Of The United States Of The Communications Commission Of The United States Of The Communications Commission Of The United States Of America. Indicates Indicated To The Communication Of The United States Of The Communications Commission Of The United States Of The Communication Of The United States Of The United Sta

The proposed transmitting intenna will be located with a center of radiation at an elevation of 284 m above arean sea level and 192 m HAAT. Given a maximum ERP of 6.0 kW, the propose that they complies with Section 73.622(f)(7) concerning the maximum permissible 1. It for Channel 7-13 DTV stations located in Zone I

As indicated in Figure 2 the proposed WEDN-DT allotment on Channel 9 will provide 43 dBu f(50 % contour coverage over the entire community of Notwich Connecticut in compliance was Section 73 625 of the FCC Rules

Accordingly, co-channel DTV and Vivin stations within 429 km and 420 km, summarized herein at Figure 3. As indicate I therein, the proposed facility will meet the

The proposed Channel 9 activity meets the requirements of Section 73 623 of the FCC Rules concerning producted interference to other existing U.S. NTSC facilities and U.S. DTV allotments and segments. Longley-Rice interference analyses were conducted pursuant to the required east of the FCC Rules, FCC OET Bulletin No 69 ("OET-69"), and published FCC mess for preparation of such interference analyses. The Longley-Rice interference analyses were conducted using the OET-69 software maintained by du Treil Lundi & Rackley Inc based on the FCC published software routines. Stations selected to a falysis were determined pursuant to the distance requirements outlined in the 1. OTV Processing Guidelines Public Notice respectively, were examined for potent and interference, and first-adjacent DTV and NTSC stations within 229 km and 220 m. respectively, were examined for potential interference. The results of the interference analyses for the proposed facility are

See Longley-Rice Methodology for Evaluation Communications Commission (July 2 1997)

^{**} The duTreil, Lundin & Rackley Inc. D1\ 1 the procedures outlined by the FCC in the Society Order, and FCC OET Bulletin No. 69. A to 1.

Coverage and Interference, OET Bulletin 69, Federal

cience analysis program is a precise implementation of and Order, subsequent Memorandum Opinion and 2 id size resolution of 2 km was employed

Notwich, Connecticut

Page 3

2%/10% criterion outlined in the FCC : Hes and published guidelines with respect to all considered stations

evaluated according to the requirement of Section 73 623(c)(5) of the FCC Rules. The analysis reveals no potentially affected. Less A TV stations

With respect to Class . . . station protection, the proposal has been

the border with Canada and is located U.S.-Canada LOU. According to the a classified as a "Class VU" allotment LOU with WEDN-DT assumed to be (spacing analysis for the pertinent Cance in allotment identified

The proposed reference to is located 389 km from the closest point on on the Canadian border area governed by the the proposed WEDN-DT facility would be study purposes. An allocation study was conducted in accordance with the place lies of the LOU for the WEDN-DT facility. A spacing analysis was conducted according to the spacing requirements of Appendix 2 of ss VU The following table summarizes the

Channel	Type	Location	Class	Required Spacing (km)	Actual Spacing (km)	Result
()	TV	Sherbroom	Vυ	276 0	421 3	145 3 km clear

Based on the foregoing we find that to 11 LDN-DT proposed Channel 9 allotment meets the requirements outlined in Section 6. The LOU for new DTV allotment proposals meeting the spacing requirements o servendix 2 of the LOU

interference predicted to occur from all other — ons (i.e. masking?)

¹¹ Interference analysis results reflect the new stage in interference to a given station considering the

A summary of the revise a service area and population numbers as they would appear in the Appendix B of the CC's Sixth Report and Order and subsequent Second Memorandum Opinion and 🔧 are summarized below

State and City	NTSC Channel	D17	
CTNORWICH	53	()	

DTA Power	Antenna	DTV Servi Trans	•
(kW)	HAAT (m)	Area (sq. km)	People (Thous)
6.0	192 0	16407	2079

As indicated above, the proposed Char provide service to an estimated populpreferential arrangement of FCC allotants

19 DTV allotment for WEDN-DT would n of 2 079,000. This represents an increase in service population of 1 239,000 with a next to the WEDN-DT Channel 45 allotment facility, 651,000 with respect to the V+ DN-DT Channel 45 licensed facility; ## and 1,311,000 with respect to the present " DN Channel 53 analog facility 88 It is evident from the above that the proposed Charry 9 allotment proposal would result in a

as Robert du Treil, Ji

in fieil, Lundin & Rackley, Inc. Hetcher Ave asota, FL 34237

cmber 9, 2003

Based on OET-69 calculations, the WELFS population of 1,428,000 within its predicted Rice predicted losses due to terrain and napopulation figures herein are based on the W LDN-TV DT service population figure losses due to terrain attenuation and inter-repopulation is estimated to be 840 00%. The estimated to be 768,000

Channel 45 licensed facility serves an estimated net -amited 41 dBu f(50,90) contour, considering Longley-Consistent with the OET-69 procedures, all

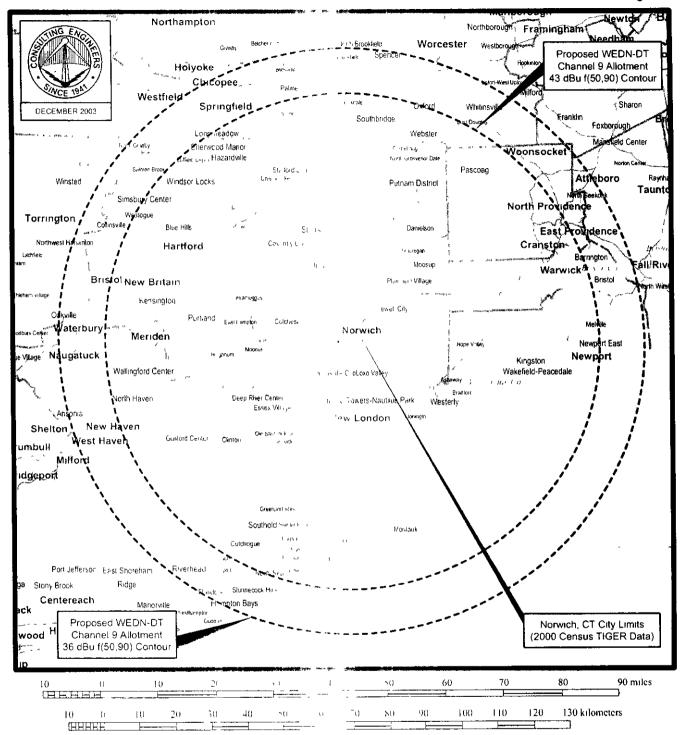
sed on Ol 1-69 calculations taking into consideration The WEDN-DT Channel 45 allotment facility service x TV) Channel 53 analog facility service population is

II (ICAL EXHIBIT IN SUPPORT GLE HION FOR RULE MAKING ILLEVISIC: STATION WEDN-DT NORW. CONNECTICUT

Techny al Specifications

Channel Frequency Band	9 / 186-192 MHz
Zone	I
Reference Coordinates (NAD 27)	
Latitude	41°31'14" North
Longitude	72°10'03" West
Height of Radiation Center Above Mean Scall and	284 m
Height of Radiation Center Above Ground 1.	129 m
Height of Radiation Center Above Average in	192 m
Effective Radiated Power	6 kW

	Directional volcana Relative Field Values						
Degrees	Value	Deg ec	Value	Degrees	Value		
XOL CU Actional antenna							



PREDICTED COVERAGE CONTOURS

TELEVISION STATION WEDN-DT NORWICH CONNECTICUT

du Treil Lundin & Local et Inc. Sarasota, Florida

TECHNICAL EXHIBIT IN SUPPORT OF PETITION FOR RULE MAKING TELEVISION STATION WEDN-DT NORWICH, CONNECTICUT

<u>Summary of Domestic Allocation Analysis</u>

	Stations Potentially Affected by Proposed Station								
Lacility Number	1 Januari	Call	(IIV State	Distance (km)	Status	Application Pictix	Apolication Reference Number		
		т-1	1 0 0 0		 7 7		205 - 1		
					- 4				
ડ	~	WMBC-DT	NEWTON NJ	Z10 5	PLN	DTVPLN	DTVP0043		
4	9	WMUR-TV	MANCHESTER NH	169 4	ric	BMLCT	218		
<u></u>	- a	WWOR-TV	SECAUCUS NIT	1 78 8	ric	BLCT	19810514KF		
6	9	WIXT-TV	SYRACUSE NY	354 7	LIC	BLCT	19860717KF		
7	9	WBPH-TV	BETHLEHEM PA	294 2	APP	BMPCDT	20030522ADF		
8	9	WBPH-DT	BETHLEHEM PA	294 2	LIC	BPRM	20011130AHC		
9	9	WWLF-DT	HAZLETON PA	331 6	PLN	DTVPLN	DTVP0058		
10	9	WVER-TV	RUTLAND VT	249 8	APP	BPRM	20000803AAC		
11	10	WTNH	NEW HAVEN CT	66 2	CP MOD	BMPCDT	19990422KE		
12	10	WTNH-DT	NEW HAVEN CT	66 2	PLN	DTVPLN	DTVP0068		
13	10	WTEN	ALBANY NY	195 5	LIC	BLCT	1285		
14	10	WJAR	PROVIDENCE RI	82 5	LIC	BLCT	2395		

Interference Interference										
Lacility Number	Interference Population Before Analysis	Population After Analysis	Baseline Population	Net Change in Interference	Percent of Baseline	Permissible Percent of Baseline	Result			
1	1559632	1606083	6/06795	46451	0 693	2 0	pass			
2					0 000		. 65			
3	_				0 000		11723			
4	400065	492014	4956255	91949	1 855	2 0	pass			
1	- 1517	1 2		1.01	0.46		-			
	- [J JUU	-	c' -			
					3					
8	2/17897	Z117897	6074845	0	0 000	2 0	pass			
0	123645	7645	101001-	0	1 000	2 N	กลยา			
10	40490	40643	867902	153	0 018	2 0	pass			
1 1	1112710	1136981	5263748	24271	0 453	2 0	pass			
12	899798	916324	5363748	16526	0 308	2 0	pass			
13					0 000		pass			
14	941605	950421	6350135	8816	0.139	2.0	pass			